

Title (en)

TRANSPARENT RUBBER-MODIFIED COPOLYMER RESIN AND RESIN COMPOSITION CONTAINING THE SAME

Title (de)

TRANSPARENTES KAUTSCHUKMODIFIZIERTES COPOLYMERHARZ UND DIESES ENTHALTENDE HARZZUSAMMENSETZUNG

Title (fr)

RESINE DE COPOLYMERES TRANSPARENTE MODIFIEE AU CAOUTCHOUC ET COMPOSITION DE RESINE LA CONTENANT

Publication

EP 1447417 A1 20040818 (EN)

Application

EP 02772988 A 20021010

Priority

- JP 0210537 W 20021010
- JP 2001313618 A 20011011
- JP 2001326163 A 20011024

Abstract (en)

The invention provides a rubber-modified copolymer resin which is excellent in transparency, impact resistance and rigidity and which has little dependency of the transparency on molding conditions, and a rubber-modified copolymer resin composition which has the above characteristics and which has high practical strength. <??>A transparent rubber-modified copolymer resin which is a rubber-modified copolymer resin obtained by copolymerizing a styrenic monomer and a (meth)acrylic ester monomer in the presence of a rubbery polymer, and which is characterized in that the volume mean particle diameter of rubber particles dispersed in the resin, is from 0.4 to 2.0 μ m, and in the cumulative rubber particle size distribution curve by volume, the difference between the diameter at an integrated value of 75% and the diameter at an integrated value of 25%, is from 0.2 to 2.0 μ m; and a rubber-modified copolymer resin composition comprising from 60 to 99.9 mass% of the transparent rubber-modified copolymer resin (A) and from 0.1 to 40 mass% of an emulsion graft copolymer (B). <IMAGE>

IPC 1-7

C08F 297/06; **C08L 51/04**; **C08F 297/00**

IPC 8 full level

C08F 279/02 (2006.01); **C08F 287/00** (2006.01); **C08F 297/00** (2006.01); **C08F 297/06** (2006.01); **C08L 51/00** (2006.01); **C08L 51/04** (2006.01)

CPC (source: EP KR US)

C08F 279/02 (2013.01 - EP US); **C08F 287/00** (2013.01 - EP US); **C08F 297/04** (2013.01 - KR); **C08L 51/006** (2013.01 - EP US); **C08L 51/04** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 1447417 A1 20040818; **EP 1447417 A4 20050824**; **EP 1447417 B1 20061102**; CN 1300204 C 20070214; CN 1564833 A 20050112; DE 60215849 D1 20061214; DE 60215849 T2 20070215; DE 60215849 T8 20070531; JP 4101175 B2 20080618; JP WO2003033560 A1 20050203; KR 100884513 B1 20090218; KR 20050035126 A 20050415; TW I302538 B 20081101; US 2004249073 A1 20041209; US 7019076 B2 20060328; WO 03033560 A1 20030424

DOCDB simple family (application)

EP 02772988 A 20021010; CN 02819897 A 20021010; DE 60215849 T 20021010; JP 0210537 W 20021010; JP 2003536296 A 20021010; KR 20047005212 A 20040409; TW 91123337 A 20021009; US 49143404 A 20040412